# 747-5600MF12S（31sets）Operation Instruction

## 1、Assignment of Mifare card and password

Maximum 31 sets of password and 62 Mifare cards are authorized to be enrolled for the lock.

Electronic key = Group number + User number (1-8 digits) or ADEL Mifare card.

The respective group number of master password, user password and temporary password are “00”, “01-29”, and “30”. The group number of Mifare cards for unlocking is “31-92”.

Each group number matches one user number or one ADEL Mifare card.

## 2、A new lock in factory mode

Default setting password “00123#” or any Mifare card is valid for unlocking. The lock makes three beep sounds and a motor rolling sound with green and red indicator light flashing in the unlocking status.

## 3、Initialization

3.1 Please use a hex wrench to press the button which is on the back side of the front lock body before installation (Please disassemble the lock and batteries if installed) and load batteries at the same time, then a long beep will be heard after 5 seconds, the initialization of the lock is successfully completed. The lock will be restored to the factory default setting, the default password of unlocking is “00123#”, and any ADEL Mifare card can unlock the door.

3.2 Input “#master password#” and group number of master password “00” and then press “*”, a long beep will be heard, which indicates the initialization of the lock is successfully completed. The lock will be restored to the factory default setting. The default password for

unlocking is “00123#”, and any ADEL Mifare card can unlock the door。

## 4、 Enrollment of electronic key

4.1. Enrollment of master password

Method one:

Input “#00123#” to enter the enrollment mode → The lock beeps with green indicator light flashing → Input the group number “00” and then press “#” → The lock beeps→ Input the user number (1-8 digits, such as 123) and then press “#” to confirm (It will be unnecessary to press “#” to confirm if the user number is 8-digit) → The lock beeps two sounds with green indicator light flashing, which indicates the enrollment of master password is successfully completed → Continue to enroll other electronic keys or press “*” three times to exit

Method two:

Remove the front handle with hex wrench and insert the mechanical key into the cylinder. Turn the mechanical key 90° in the opposite direction of turning the latches back into the mortise to enter the enrollment mode → The lock beeps with green indicator light flashing → Input the group number “00” and then press “#” → The lock beeps → Input the user number (1-8 digits, such as 123) and then press “#” to confirm (It will be unnecessary to press “#” to confirm if the user number is 8-digit) → The lock beeps two sounds with green indicator light flashing, which indicates the enrollment of master password is successfully completed → Continue to enroll other electronic keys or press “*” three times to exit

**NOTE:**

◇ The default password or the enrolled master password will be invalid after enrolling the master password with the above methods. All the

Mifare cards must be enrolled before using.

◇ If the cards for enrollment have already been enrolled or are not ADEL Mifare cards, the lock will beep with red indicator light on.

4.2 Enrollment / Change of user password

Input “#master password#” to enter the enrollment mode → The lock beeps with green indicator light flashing → Input the group number “01-29” and then press “#” → The lock beeps → Input the user number (1-8 digits, such as 123) and then press “#” to confirm (It will be unnecessary to press “#” to confirm if the user number is 8-digit) → The lock beeps two sounds with green indicator light flashing, which indicates the enrollment of user password is successfully completed → Continue to enroll other electronic keys or press “*” three times to exit

4.3 Enrollment / Change of temporary password

Input “#master password#” to enter the enrollment mode → The lock beeps with green indicator light flashing → Input the group number “30” and then press “#” → The lock beeps → Input the user number (1-8 digits, such as 123) and then press “#” to confirm (It will be unnecessary to press “#” to confirm if the user number is 8-digit) → The lock beeps two sounds with green indicator light flashing, which indicates the enrollment of temporary password is successfully completed → Continue to enroll other electronic keys or press “*” three times to exit

**NOTE:** The enrolled temporary password can only be used once. It’s required to enroll again once used.

4.4 Enrollment of ADEL Mifare card

Input “#master password#” to enter the enrollment mode → The lock beeps with green indicator light flashing → Input the group number

“31-92” and then press “#” → Green indicator light is on with red indicator light flashing → Put an ADEL Mifare card close to the sensor area of the lock → The lock beeps two sounds and red indicator light is off, which indicates the enrollment of ADEL Mifare card is successfully completed → Continue to enroll other electronic keys or press “*” three times to exit.

**NOTE:**

◇ If the cards for enrollment have already been enrolled or are not ADEL Mifare cards, the lock will beep with red indicator light on.

◇ If the group number of Mifare card has already been occupied, the lock will beep two sounds with red indicator light flashing when the group number input. The lock will be back to the enrollment mode. Please input the available group number.

4.5 Deletion of electronic key

Input “#master password#” → The lock beeps with green indicator light flashing → Input the group number to be deleted such as “01” and then press “*” → The lock beeps three sounds, which indicates the deletion of password or ADEL Mifare card is successfully completed → Continue to delete other electronic keys or press “*” three times to exit

**NOTE:** The lock will be restored to the factory default setting after deleting the master password. All the enrolled user passwords or Mifare cards set by the master password will be invalid. The default password of unlocking is “00123#”, and any ADEL Mifare card can unlock the door.

4.6 Unlocking

After the valid ADEL Mifare card used or the correct password input, the green indicator light goes on and the lock beeps with a motor rolling sound, turn the handle to open the door.

4.7 Passage mode

Press and hold button “0” within 5 seconds after the door unlocked by valid password or ADEL Mifare card, the passage mode is set. Green indicator light will flash every 5 seconds.

To cancel the passage mode, please use the enrolled ADEL Mifare card or input the correct password to unlock the door or extend the deadbolt. The red indicator light flashes and the lock beeps with a motor rolling sound, which indicates the cancellation of passage mode is successfully completed.

NOTE: Passage mode is specially designed for office meetings, gatherings, etc. When the lock is in the passage mode, it can be unlocked without any electronic keys. That is to say, you can just turn the handle to open the door. Therefore, please remember to cancel the passage mode in time.

4.8 Usage of emergency key

1. Remove handle:

Take out the screws by hex wrench and remove front handle

2. Unlock by key

Insert and turn the mechanical key to unlock the lock

4.9. Change of batteries

If the lock works under insufficient voltage, it will beep alarms with red indicator light flashing when unlocking. It’s highly recommended to change the batteries as soon as possible.

Operation steps:

1. Remove the battery cover with cross screwdriver
2. Change batteries
3. Reinstall the battery cover

# ADEL747-5600

## MF12S-S

## Operation Instruction

Shenzhen Ideal Microelectronics Co., Ltd provides all-round technical assistance for users, please contact our exclusive distributors throughout the world, or contact our head office directly.

SHENZHEN IDEAL MICROELECTRONICS CO., LTD

Address: Bldg 4, Xili Nangang Second Industrial Park, Songbai Road, Nanshan District, Shenzhen, China

Tel: 86-755-27657755

Fax: 86-755-27652282

E-mail: service@adellock.com

Website: http://www.adellock.com

# Acknowledgement

**Dear user:**

Thanks very much for your selection of ADEL smart lock!

ADEL, governed by the belief of “Innovation as soul, customer as God”, has always committed to providing beautiful, novel, high-tech, and high quality products for customers.

ADEL Group was founded in 1993 with scientific research, development, design, manufacture, and sale of security intelligence products and built as an “aircraft carrier” in the industry.

The group, headquartered in Shenzhen, covers an area of nearly ten thousand square meters. There are R & D center, test center, mold processing center, production center, information management center, marketing center, customer service center, and financial management center under the group. Besides, the group has agents and technical support service in major cities throughout the country.

As a high-tech private enterprise group, we work with U.S. ATMEL, DALLAS, BELL, VERIDICOM, ORACLE, ONITY, and Chinese Academy of Sciences for extensive technical exchanges and cooperation. Until now, we have won more than 200 domestic and foreign patents and 13 invention patents.

ADEL747-5600 MF12S lock combines RF and password technology, which is the outcome of various patented technology and meticulous research and innovation. With sophisticated design and superior performance, the product enjoys a high reputation in the mind of consumers.

As lock specialist in the 21st century, we will persist in the belief of “Innovation as soul, customer as God” and continue to provide the highest quality products and the most sincere service for you.

Sincerely wish you have a happy experience of usage and enjoy the joy of life brought by high-tech!

Thanks again for your support and love to ADEL Group!

Shenzhen Ideal Microelectronics Co., Ltd

# Safety and Precautions

1、 Electronic lock is a high-tech product, and the installation will directly impact on its normal use and service life. It's highly recommended to have the lock installed by professional technician according to the installation standards of ADEL Company.

2、 DO NOT use the lock under the environment of high radiation/magnetic field/humidity to avoid influencing the performance and service life of the lock.

3、 Please initialize the lock as soon as possible after completing the installation, and then enroll the electronic key immediately to prevent the lock being unlocked illegally.

4、 Please inspect key box and make sure it is in good condition before opening.

5、 Please keep your enrolled electronic keys safe and mechanical keys in a proper place.

6、 Please use four 1.5V alkaline batteries with the same brand; it may cause damage to the lock if mixing new batteries with the old ones or using non-alkaline batteries.

7、 For better enjoy the convenience and advancement of ADEL products, please read this manual carefully before using. Any questions, please call local customer service center or service center headquartered in Shenzhen of ADEL Company directly. We have professional technicians serve for you to ensure you use at ease.

8、 Please visit our website WWW.ADELLOCK.COM to download user manual if you accidentally miss it.

9、 Please add our website to your computer favorites in order for your convenience to find our service information and product description at any moment.

Shenzhen Ideal Microelectronics Co., Ltd

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## Note

1. A new lock that is just out of factory or initialized can be unlocked with any ADEL Mifare card, and the default password for opening is “00123#”.
2. If the lock works under insufficient voltage, it will beep alarms with red indicator light flashing when unlocking. It is highly recommended to change the batteries as soon as possible. Please use four 1.5V alkaline batteries with the same brand. It may cause damage to the lock if mixing new batteries with the old ones or using non-alkaline batteries.
3. Do not clean the lock surface with corrosive substance, or else the protection layer may be damaged and thus influence the gloss of the lock surface. Please clean the lock surface periodically with “furniture polish wax”
4. If it fails to unlock the door with electronic keys, please use the mechanical key. Please keep the mechanical key in a proper place.
5. It’s required to use ADLE Mifare card for the lock.
6. Electronic keys mentioned in this manual include ADEL Mifare card and password.

# Ⅰ. Overview

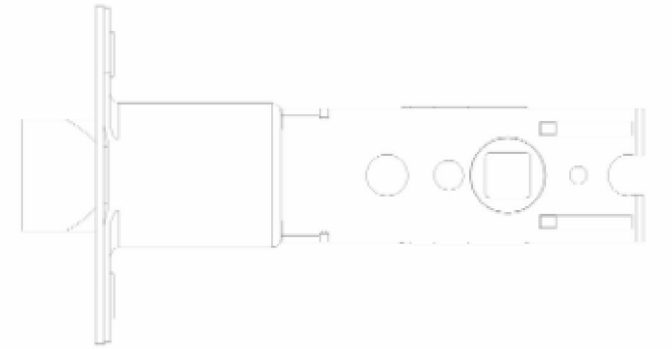
## 1.1 Product features

### 1.1.1 Product introduction

A：Lock body

| 5600 Mifare card + Password | | |
|---|---|---|
| Picture | | |
| Model No. | Front lock body | Back lock body |

B：Mortise with single latch



single latch

### 1.1.2 Features

1、 Unlocking the door by either ADEL Mifare card or password. 12-digit password will cater to user's usage pattern;
2、 Up to 31 sets of password and 62 Mifare cards;
3、 Independent management mode: you can add/delete electronic keys independently for your convenience;
4、 International standard operation;
5、 Power supply: four 1.5V AA alkaline batteries can support the lock to operate around 10,000 times;
6、 Low voltage alarm: the lock will make alarm sound and red light flashes due to insufficient voltage. Please change alkaline batteries in time;
7、 Passage mode can be set for certain occasions;
8、 LED light and alarm sound: The lock will give different light colors and alarm sound for different lock status during the operation;

### 1.1.3 Accessory

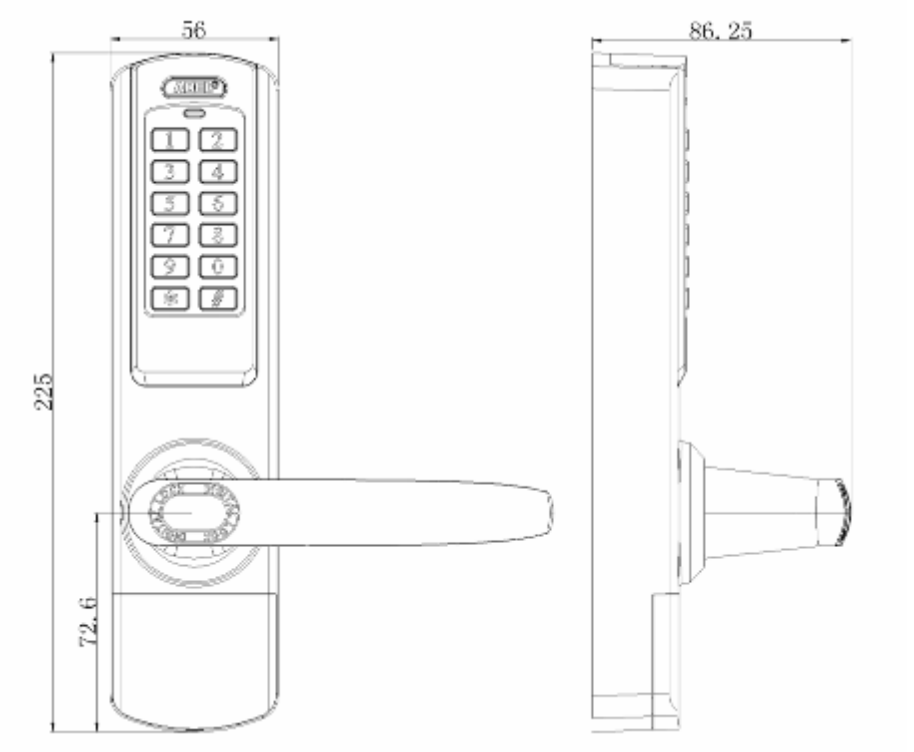
#### 1.1.3.1 Mifare Card

ADEL Mifare card

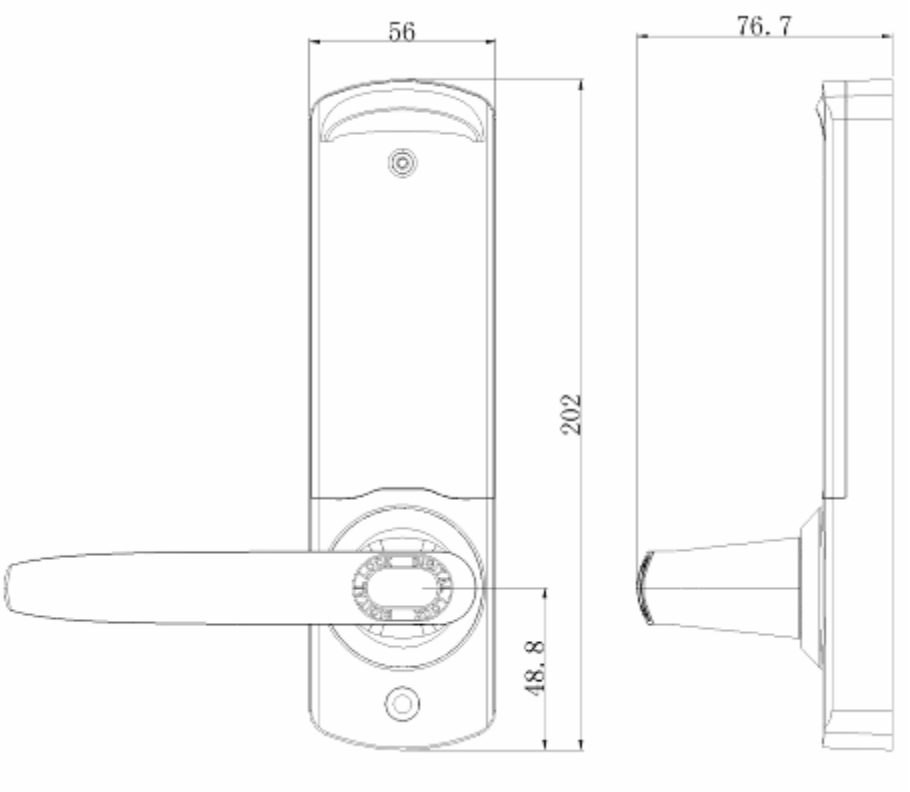
Key card

## 1.2 Structure size

### 1.2.1 Dimensional drawing of lock body

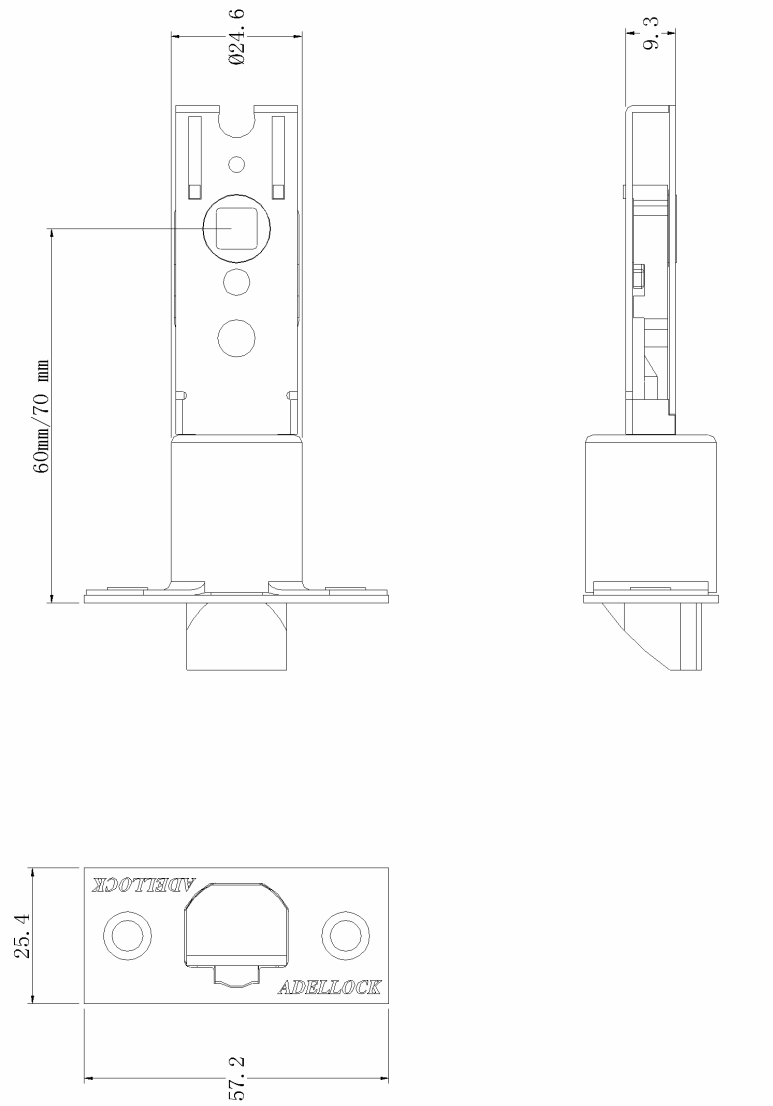



Dimensional drawing of front lock body

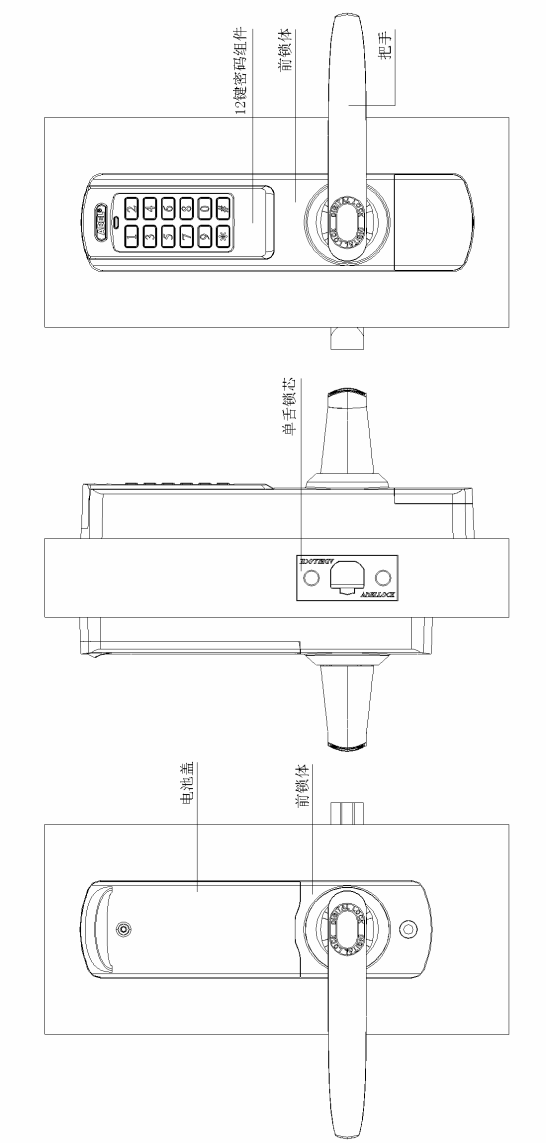



Dimensional drawing of back lock body

### 1.2.2 Dimensional drawing of mortise



### 1.2.3 Lock parts




电池盒盖：Battery cover 前锁体：Front lock body 单舌锁芯：Mortise with single latch 12 键密码组件：12-digit password component 把手：Handle

### 1.3 Product performance

#### 1.3.1 Technical parameters

| S/N | Item | Technical parameters |
|---|---|---|
| 1 | Mifare card capacity | 62pcs |
| 2 | Password capacity | 31 sets |
| 3 | Static consumption | ＜100μA |
| 4 | Dynamic consumption | ＜180mA |
| 5 | Working voltage | 4 AA alkaline batteries, DC 6V |
| 6 | Battery life | Approximate 10, 000 times |
| 7 | Power supply | 4 AA alkaline batteries |
| 8 | Storage temperature | -10℃～55℃ |
| 9 | Low voltage alarm | ＜4.5V |

#### 1.3.2 Working environment

Parameters：

| S/N | Item | Technical parameters |
|---|---|---|
| 1. | Storage temperature | -15℃～+55℃ |
| 2. | Storage humidity | 10～98%RH |
| 3. | Working environment | -15℃～50℃ |
| 4. | Working humidity | RH（45-85）% |

Note:

1. DO NOT expose the lock to high radiation/magnetic field/humidity to avoid influencing the performance and service life of the lock.
2. Keep the lock away from corrosive substances, or else the protection layer of the lock surface may be damaged.

#### 1.3.3 Weight

Weight of each lock with foam box：About 2.3KG

Weight of each carton with 6 locks included：About 14.7KG

# Ⅱ. Installation

## 2.1 Recommendation

It's highly recommended to have the lock installed by professional technicians.

## 2.2 Installation requirement

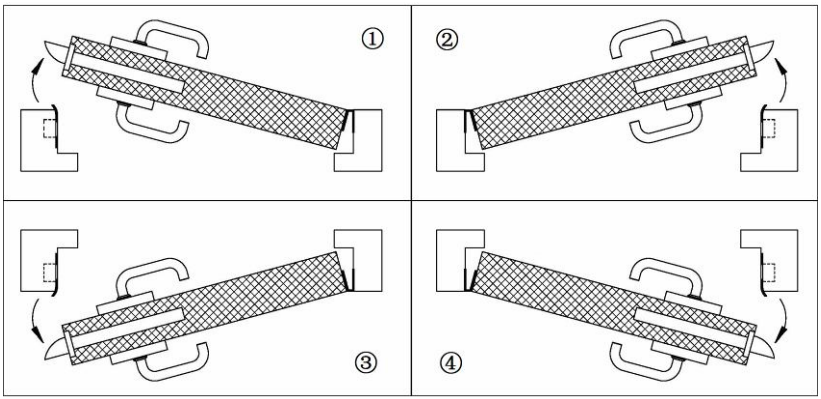
### 2.2.1 Opening mode

① **RH** (Right Hand)：Standing outside, the hinges are on the right, opening the door by pushing inside

② **LH** (Left Hand)：Standing outside, the hinges are on the left, opening the door by pushing inside

③ **RHR** (Right Hand Reverse)：Standing outside, the hinges are on the right, opening the door by pulling outside

④ **LHR** (Left Hand Reverse)：Standing outside, the hinges are on the left, opening the door by pulling outside




**Note: Default opening method in this manual is ①**

### 2.2.2 Door requirement

1. Door material: wood

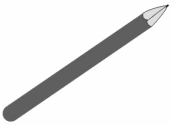
2. Door thickness: 38mm～75mm

3. If there is any decorative border on the door surface, it must not be less than 100mm away from the door edge.

### 2.2.3 Drilling template

Please refer to the “Installation Instructions”.

### 2.3 Installation tools

| | | |
|---|---|---|
| Drill | Cable Extension | Wood Drill |
| Angle Square | Wood Rasp | Paper Cutter |
| Screwdriver | Chisel |  Pencil |
| Hammer | Twist Drill Bit | Tape Measure |

### 2.4 Installation

### 2.4.1 Installation steps

Please refer to the “Installation Instructions”

# Ⅲ. Operation instructions

## 3.1Preparation before using

### 3.1.1 Button description

| | |
|---|---|
| “0” | Set passage mode |
| “*” | Exit from the enrollment mode |
| “#” | Finish the operation |

### 3.1.2 Indication of the lock status

3.1.2.1 New lock indication: Any ADEL Mifare card or default password “00123#” can unlock the door. The lock beeps three sounds with green and red indicator light flashing and a motor rolling sound heard;

3.1.2.2 Operation succeeded: green light on with a long beep;

3.1.2.3 Operation failed: red light on with two short beeps;

3.1.2.4 Unlocking indication: electric engine makes a rolling sound for the first time, which indicates that the lock is in door open state;

3.1.2.5 Locking indication: electric engine makes a rolling sound for the second time, which indicates that the lock is in door closed status;

3.1.2.6 Passage mode indication: green indicator light flashes every 5 seconds;

3.1.2.7 Low voltage: red indicator light flashes with alarms heard when unlocking;

3.1.2.8 Mifare card has already been enrolled: the lock will beep two sounds with red indicator light flashing when putting the card close to sensor area to unlock the door.

### 3.1.3 Technical terms

3.1.3.1 Electronic key: ADEL Mifare card or password

3.1.3.2 Legal: valid to use after enrollment

### 3.1.4 Check before using

3.1.4.1 Batteries are installed

3.1.4.2 All screws are tightened

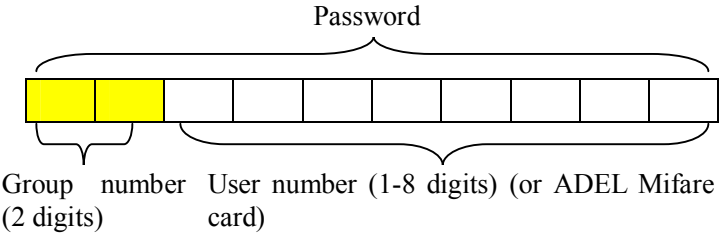
### 3.1.5 Operating tools

3.1.5.1 Hex wrench is required to use mechanical key or change batteries.

### 3.2 Assignment of Mifare card and password

| Type | Quantity | Privilege |
|---|---|---|
| Master password | 1 set | Group number “00”, enrolling Mifare card & password and unlocking |
| User password | 29 sets | Group number “01-29”, unlocking |
| Temporary password | 1 set | Group number “30”, can only be used once for unlocking |
| Mifare card | 62pcs | Group number “31-92”, unlocking |

There are 93 electronic keys in all, and each electronic key can be used to unlock the door. Each electronic key consists of group number and user number (or ADEL Mifare card).




Group number: identification number of electronic key. There are 93 group numbers (“00, 01 …91, 92”) in all, and each group number matches one set of user number.

The respective group number of master password, user password and temporary password is “00”, “01-29”, and “30”. The enrolled temporary password can only be used once. It’s required to enroll again

after used.

User number: also called personal password, arbitrary combination of 10 digits by 0-9, at least 1 digit and the maximum is 8 digits.

A valid password consists of group number and user number. For example, if the group number is “05” and the user number is “123”, then the password will be “05123”.

Group number of ADEL Mifare card: “31-92”. Each group number matches one ADEL Mifare card. It’s required to use group number when enrolling or deleting ADEL Mifare card. It’s not required when unlocking the door with ADEL Mifare card. Please register the group numbers of the enrolled ADEL Mifare cards on the Appendix Ⅰ “Group number and its corresponding ADEL Mifare card” for future reference.

NOTE: Enrollment operation can’t be carried out when the lock is in back locking state (extend the deadbolt).

**3.3 Factory default setting**

The default password is “00123#”, and any ADEL Mifare card can unlock the door. The lock beeps three sounds with green and red indicator light flashing and a motor rolling sound heard.

**NOTE: Please enroll your password and ADEL Mifare card before using.**

**3.4 Initialization**

3.1 Please use a hex wrench to press the button which is on the back side of the front lock body before installation (Please disassemble the lock and batteries if installed) and load batteries at the same time, then a long beep will be heard after 5 seconds, the initialization of the lock is successfully completed. The lock will be restored to the factory default setting, the default password of unlocking is “00123#”, and any ADEL

Mifare card can unlock the door.

3.2 Input “#master password#” and group number of master password “00” and then press “*”, a long beep will be heard, which indicates the initialization of the lock is successfully completed. The lock will be restored to the factory default setting. The default password for unlocking is “00123#”, and any ADEL Mifare card can unlock the door.

### 3.5 Enrollment of electronic key

#### 3.5.1 Enrollment / Change of master password

There are two methods to enroll or change master password:

Method one:

| S/N | Operational procedure | Lock indication |
|---|---|---|
| 1 | Input “#00123#” to enter the enrollment mode | The lock beeps with green indicator light flashing |
| 2 | Input the group number “00” and then press “#” | The lock beeps |
| 3 | Input the user number (1-8 digits, such as 123) and then press “#” to confirm (It will be unnecessary to press “#” to confirm if the user number is 8-digit) | The lock beeps two sounds with green indicator light flashing |
| 4 | Enrollment of master password is successfully completed | Green indicator light on |
| 5 | Continue to enroll other electronic keys or press “*” three times to exit | Green indicator light off |

Method two:

| S/N | Operational procedure | Lock indication |
|---|---|---|
| 1 | Remove the cylinder cover with cylinder cover opener and insert the mechanical key into the cylinder. Turn | The lock beeps with green indicator light flashing |

| | | |
|---|---|---|
| | the mechanical key 90° in the opposite direction of turning the latches back into the mortise to enter the enrollment mode | |
| 2 | Input the group number “00” and then press “#” | The lock beeps |
| 3 | Input the user number (1-8 digits, such as 123) and then press “#” to confirm (It will be unnecessary to press “#” to confirm if the user number is 8-digit) | The lock beeps two sounds with green indicator light flashing |
| 4 | Enrollment of master password is successfully completed | Green indicator light on |
| 5 | Continue to enroll other electronic keys or press “*” three times to exit | Green indicator light off |

NOTE:

◇ The default password or the enrolled master password will be invalid after enrolling the master password with the above methods. All the Mifare cards must be enrolled before using.

◇ If the cards for enrollment have already been enrolled or are not ADEL Mifare cards, the lock will beep with red indicator light on.

◇ If the group number of Mifare card has already been occupied, the lock will beep two sounds with red indicator light flashing when the group number input. The lock will be back to the enrollment mode. Please input the available group number.

### 3.5.2 Enrollment / Change of user password

| S/N | Operational procedure | Lock indication |
|---|---|---|
| 1 | Input “#master password#” to enter the enrollment mode | The lock beeps with green indicator light flashing |

| | | |
|---|---|---|
| 2 | Input the group number “01-29” and then press “#” | The lock beeps |
| 3 | Input the user number (1-8 digits, such as 123) and then press “#” to confirm (It will be unnecessary to press “#” to confirm if the user number is 8-digit) | The lock beeps two sounds with green indicator light flashing |
| 4 | Enrollment of user password is successfully completed | Green indicator light on |
| 5 | Continue to enroll other electronic keys or press “*” three times to exit | Green indicator light off |

NOTE: Repeat the step 2-4 to continue to enroll other user passwords.

### 3.5.3 Enrollment / Change of temporary password

| S/N | Operational procedure | Lock indication |
|---|---|---|
| 1 | Input “#master password#” to enter the enrollment mode | The lock beeps with green indicator light flashing |
| 2 | Input the group number “30” and then press “#” | The lock beeps |
| 3 | Input the user number (1-8 digits, such as 123) and then press “#” to confirm (It will be unnecessary to press “#” to confirm if the user number is 8-digit) | The lock beeps two sounds with green indicator light flashing |
| 4 | Enrollment of temporary password is successfully completed | Green indicator light on |
| 5 | Continue to enroll other electronic keys or press “*” three times to exit | Green indicator light off |

NOTE: The enrolled temporary password can only be used once. It’s required to enroll again after used.

### 3.5.4 Enrollment of ADEL Mifare card

| S/N | Operational procedure | Lock indication |
|---|---|---|
| 1 | Input “#master password#” to enter the enrollment mode | The lock beeps with green indicator light flashing |
| 2 | Input the group number “31-92” and then press “#” | Green indicator light is on with red indicator light flashing |
| 3 | Put an ADEL Mifare card close to the sensor area of the lock | The lock beeps two sounds and red indicator light is off |
| 4 | Enrollment of ADEL Mifare card is successfully completed | Green indicator light on |
| 5 | Continue to enroll other electronic keys or press “*” three times to exit | Green indicator light off |

NOTE:

◇ If the cards for enrollment have already been enrolled or are not ADEL Mifare cards, the lock will beep with red indicator light flashing.

◇ If the group number of Mifare card has already been occupied, the lock will beep two sounds with red indicator light flashing when inputting the group number. The lock will be back to the enrollment state. Please input the available group number.

### 3.6 Deletion of electronic key

| S/N | Operational procedure | Lock indication |
|---|---|---|
| 1 | Input “#master password#” | The lock beeps with green indicator light flashing |
| 2 | Input the group number to be deleted such as “01” and | The lock beeps three sounds |

| | | |
|---|---|---|
| | then press “*” | |
| 3 | Deletion of password or ADEL Mifare card is successfully completed | |
| 4 | Continue to delete other electronic keys or press “*” three times to exit | Green indicator light off |

**NOTE: The lock will be restored to the factory default setting after deleting the master password. The default password for unlocking is “00123#”, and any ADEL Mifare card can unlock the door.**

### 3.7 Daily use

#### 3.7.1 Unlocking

##### 3.7.1.1 Unlock the door with ADEL Mifare card

| S/N | Operational procedure | Lock indication |
|---|---|---|
| 1 | Put an enrolled ADEL Mifare card close to the sensor area | The lock beeps with a motor rolling sound heard |
| 2 | Turn the handle to open the door | Otherwise, it will be automatically locked 5 seconds later. |

##### 3.7.1.2 Unlock the door with password

| S/N | Operational procedure | Lock indication |
|---|---|---|
| 1 | Input the correct password | The lock beeps with a motor rolling sound heard |
| 2 | Turn the handle to open the door | Otherwise, it will be automatically locked 5 seconds later. |

NOTE:

◇ Keypad will be locked for 5 seconds if inputting an incorrect password three times (Password must be more than 4 digits

including “#”). Do not press any keypad within the 5 seconds; otherwise, the locking time will be automatically delayed for 5 seconds again;

◇ The enrolled ADEL Mifare card is available to unlock the door when the keypad is locked, however, the locking time will be automatically delayed for 5 seconds again;

**3.7.1.3 Unlock the door with temporary password**

| S/N | Operational procedure | Lock indication |
|---|---|---|
| 1 | Input the enrolled temporary password | The lock beeps with a motor rolling sound heard |
| 2 | Turn the handle to open the door | Otherwise, it will be automatically locked 5 seconds later. |

NOTE:

◇ Temporary password will be invalid once it’s used.

◇ Keypad will be locked for 5 seconds if inputting an incorrect password three times (Password must be more than 4 digits including “#”). Do not press any keypad within the 5 seconds; otherwise, the locking time will be automatically delayed for 5 seconds again;

◇ The enrolled ADEL Mifare card is available to unlock the door when the keypad is locked, however, the locking time will be automatically delayed for 5 seconds again;

**3.7.2 Passage mode**

**3.7.2.1 Setup of passage mode**

Press “0” within 5 seconds after the door is opened by the enrolled ADEL Mifare card or password, and the passage mode is set. Green indicator light will flash every 5 seconds.

**3.7.2.2 Cancellation of passage mode**

To cancel the passage mode, please use the enrolled ADEL Mifare card or input the correct password to open the door or extend the deadbolt.

**NOTE: Passage mode is specially designed for office meetings, gatherings, etc. When the lock is in the passage mode, it can be unlocked without any electronic keys. That is to say, you can just turn the handle to open the door. Therefore, please remember to cancel the passage mode in time**

**3.8 Others**

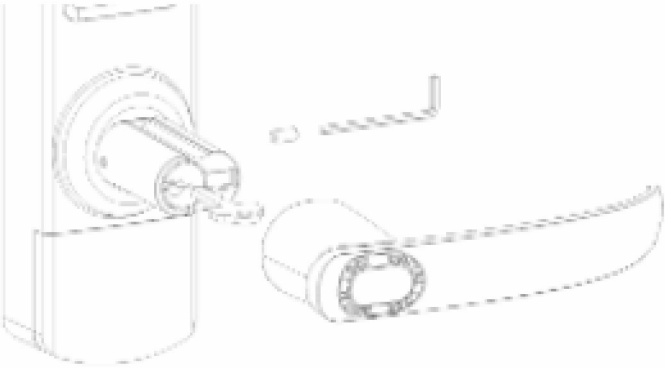
**3.8.1 Use of mechanical key**

1. Remove handle:

Take out the screws by hex wrench and remove the front handle

2. Unlock by key

Insert and turn the mechanical key to unlock the lock



### 3.8.2 Change of batteries

The lock will make alarm sound and red light flashes due to insufficient voltage. Please change alkaline batteries in time, or every time there will be repeated red indicator light flashes with alarms heard when unlocking.

It can be unlocked around 100 times till batteries are changed.

**Notes:**

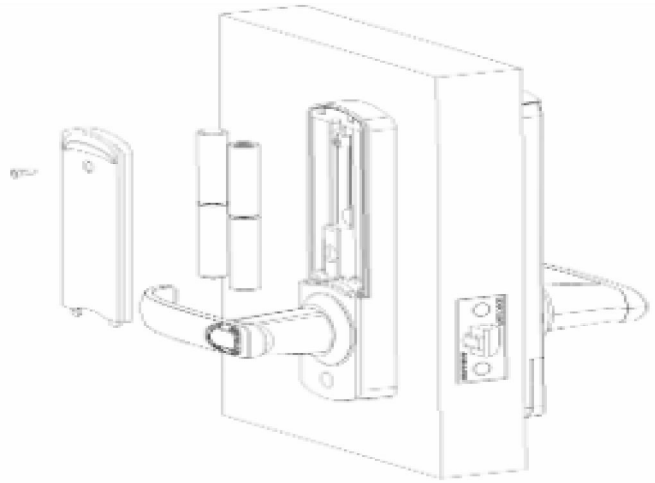
**（1）Please make sure batteries are installed properly according to electrode pole listed in the battery box.**

**（2）Please use four 1.5V alkaline batteries with the same brand; It may cause damage to the lock if mixing new batteries with the old ones or using non-alkaline batteries.**

**（3）Recycle the old batteries for environment protection**

Operation steps:

Remove screws which fix the battery box cover by hex wrench → remove battery cover → change batteries → install battery cover → fix the screw



## Ⅳ. Maintenance

### 4.1 Daily maintenance

1. Do not clean the lock surface with corrosive substance, or else the protection layer may be damaged and thus influence the gloss of the lock surface. Please clean the lock surface periodically with "furniture polish wax".
2. DO NOT hang any object on the handle.
3. Please adjust the strike plate if the door deformed as it may affect the operation of the lock.
4. Please change the batteries as soon as possible if the lock works under insufficient voltage. **Please use four 1.5V alkaline batteries with the same brand; it may cause damage to the lock if mixing new batteries with the old ones or using non-alkaline batteries**.
5. Check whether the screws and handle are loose or not periodically.

### 4.2 Troubleshooting

| Malfunction | Cause | Solution |
|---|---|---|
| Unlock the door with electronic keys, red light on, the lock beeps but fails to open the door | The electronic key might be illegal | Apply a legal electronic key |
| | The electronic key might have been cleared | Apply a legal electronic key or enroll the electronic key with master electronic key |
| | Password might be wrongly input | Input the correct password |
| Unlock the door with electronic keys, green light on, the lock beeps but fails to open the door | Insufficient voltage | Change the batteries or use external power |
| | Bad contact of battery cable and PCB cable | Reconnect the cables |
| | Bad contact of motor plug and PCB slot | Reconnect the motor plug with PCB slot |
| No response when | No batteries | Unlock the door with |

| | | |
|---|---|---|
| unlocking the door with electronic keys | | mechanical key and load the batteries |
| | Batteries are wrongly loaded | Reload the batteries correctly |
| | Battery cable fails to connect PCB cable | Reconnect the cables |
| The lock beeps two sounds with red indicator light flashing when unlocking the door with electronic keys | Insufficient voltage | Change the batteries |
| Fail to enter the enrollment mode or deletion mode | 1. Input incorrect master password or the password is not master password<br>2. Operation steps are incorrect | 1. Apply the correct master password<br>2. Review the instructions or contact the after sales service |

# Ⅴ After-sales Service

## 5.1 Warranty Policy

1. Users should keep this warranty card and standard sales voucher of State Administration of Taxation opened by dealer which will be required to show as a warranty basis for maintenance. Please keep the warranty card well. If it's lost, we will not reissue a new one.
2. Warranty period starts from the date of valid purchasing voucher.
3. Products (including mechanical parts and electronic parts) will be maintained for free within one year. During this year, if electronic parts and mechanical parts of the lock appear quality problems, all of them will be maintained for free. However, damage caused by human factor is not in the warranty range. Users must pay for maintenance.
4. Lifelong maintenance: Cost will be charged for maintenance after one year. ADEL Company will provide high-quality and inexpensive spare parts for each maintenance center and user.
5. ADEL Company and each maintenance center provide maintenance standards, technical consultation and support, and business training.
6. For user's letters, customer service center will respond in 1-2 days; for user's complaints, response will be carried out on that day or the next day.
7. Site service cannot be provided in some regions. Service regions that are excluded by ADEL Company include the regions that have geographical barriers, undeveloped roads, or public transport which is not suitable for regular travel. Maintenance service needs to negotiate and be provided through additional charges.
8. Maintained parts continue to have warranty service during the warranty period. If the warranty period is less than three months, spare parts only have three months for maintenance since the date of replacement.

9. Spare parts replaced belong to ADEL Company.

## 5.2 Exceptional Cases

In order to protect your legal rights, please avoid damaging the lock unnecessarily. If the lock fails to work, work abnormally, or is damaged due to the following reasons, ADEL Company assumes no obligation for free warranty:

1、 Your lock beyond warranty period;

2、 No warranty card and standard sales voucher of State Administration of Taxation;

3、 You don't install or use the lock and peripheral equipments according to manual requirements;

4、 Your lock is not installed, modified or disassembled by authorized service personnel of ADEL;

5、 Various problems caused by the reasons including but not limited to broken door, distortion of the door caused by wetness or dryness, power supply issue, improper product storage, product bump, no preventive maintenance required, or using components or parts of ancillary products which are not supplied by ADEL;

6、 Failure or instability caused by electric power, voltage, air conditioner, humidity control or other environmental conditions (except for quality standard extent permitted of ADEL products), force majeure (such as earthquake, water disaster, flood, etc.), and accidents etc.

## 5.3 Obtaining warranty service & Technical support

1. If your lock fails to unlock, please operate according to solutions for common errors in the manual. If it doesn't take effect, please contact local customer service center of ADEL Company and provide the following information:

（1）ADEL lock model;
（2）Your purchase date or use date after installation and acceptance;
（3）Your telephone, fax, and detailed address;
（4）Product fault conditions (more detailed phenomenon, problems will be solved sooner);
（5）Your suggestions and requirements;

2. In order to re-simulate the process of accident, find out causes, and solve product faults, users should cooperate to answer the questions, including site conditions, fault conditions, regular/occasional accident, operation procedures, etc.

3. If the problem is still not solved, personnel from local customer service center of ADEL Company will provide on-site service.

4. It is strongly recommended that you have to check whether it's the appointed technician from ADEL.

5. Please checkout maintenance effect after finishing maintenance. If the fault cannot be completely eliminated, you can refuse to sign the "Service Activity Reporting".

6. Please sign on the "Service Activity Reporting" and propose valuable advice if the lock runs normally. Official seal will be required if you're a company user.

## 5.4 Feedback

1. If you are interrogative or unsatisfied with our product and service including product quality, technology, charge standard etc., please report to local customer service center, they will properly handle your feedback.

2. If the local customer service center cannot solve your problem or you are not satisfied with the results, please call/fax ADEL customer service center headquartered in Shenzhen, we will respond promptly and give you a reasonable reply.

3. Contact information of various customer service centers: In order for

you to accurately find our customer service centers, please visit our website www.adellock.com to search.

4. Contact information of ADEL Company:

Shenzhen Ideal Microelectronics Co., Ltd
Address: Bldg. 4, Xili Nangang Second Industrial Park, Songbai Road, Nanshan District, Shenzhen, China
Tel: + 86-755 2765 7755
Fax: + 86-755 2765 2282
Email: service@adellock.com
Website: www.adellock.com

ADEL (Asia) Ltd
Address: Unit 2006-2007A, 20/F, Futura Plaza, 111-113How Ming Street, Kwun Tong, Kowloon, Hong Kong
Tel: +852 2989 6328
Fax: +852 2989 6329
Email: info@adelfingerprint.com
Website: www.adelfingerprint.com

Special Prompts:

1、 The above items has stipulated all responsibilities for the products of ADEL Company and replaced all other express/implied guarantees or responsibilities. When the products run abnormally, responsibilities of ADEL Company for users are limited to the maintenance or replacement in accordance with the above items. There are no other guarantees apart from this. If there are additional express regulations of national applicable laws, ADEL Company will comply with law enforcement.

2、 Any direct or indirect loss caused by using the products of ADEL Company abnormally due to whatever reasons, ADEL Company

only assumes the responsibilities required by national applicable laws.

## Statement

**If any fault appears in use, please contact local customer service center in time. ADEL Company will not assume any responsibilities in case of self-disassembly.**

# Appendix

## Ⅰ. Group number and its corresponding ADLE Mifare card

| Group number | Name | Group number | Name | Group number | Name |
|---|---|---|---|---|---|
| 31 | | 52 | | 73 | |
| 32 | | 53 | | 74 | |
| 33 | | 54 | | 75 | |
| 34 | | 55 | | 76 | |
| 35 | | 56 | | 77 | |
| 36 | | 57 | | 78 | |
| 37 | | 58 | | 79 | |
| 38 | | 59 | | 80 | |
| 39 | | 60 | | 81 | |
| 40 | | 61 | | 82 | |
| 41 | | 62 | | 83 | |
| 42 | | 63 | | 84 | |
| 43 | | 64 | | 85 | |
| 44 | | 65 | | 86 | |
| 45 | | 66 | | 87 | |
| 46 | | 67 | | 88 | |
| 47 | | 68 | | 89 | |
| 48 | | 69 | | 90 | |
| 49 | | 70 | | 91 | |
| 50 | | 71 | | 92 | |
| 51 | | 72 | | | |

## II. Packing list

| Name | Front body | Back body |
|---|---|---|
| Picture | | |
| Quantity | 1 | 1 |
| Description | | |

| Name | mortise | Strike plate |
|---|---|---|
| Picture | | |
| Quantity | 1 | 1 |
| Description | | Its dimension depends on door thickness |

| Name | Strike box | Mechanical key |
|---|---|---|
| Picture | | |
| Quantity | 1 | 2 |
| Description | | |

| Name | Hex wrench | Mortise location pin | Screw for front lock body |
|---|---|---|---|
| Picture | | | |

| | | | |
|---|---|---|---|
| Quantity | 2 | 2 | 1 |
| Description | 2.5mm×1<br>2mm×1 | | |
| Name | Single latch shaft | | M5 round head screws |
| Picture | | | |
| Quantity | 1 | | 45mm×1, 25mm×1, 55mm×1<br>30mm×1, 65mm×1, 40mm×1,<br>75mm×1, 50mm×1 |
| Description | Its dimension depends on door thickness | | Please use them as per Installation Guideline |
| Name | Screw with sharp point M4*25 | | M5*10 countersunk head screws |
| Picture | | | |
| Quantity | 4 | | 4 |
| Description | For wooden door | | For metal door |
| Name | Installation Guide | User manual | Certificate |
| Picture | | | |
| Quantity | 1 | 1 | 1 |
| Description | | | |

## Ⅲ. Reference to Product Standard and Enterprise Standard：

National Standards:

| | |
|---|---|
| Electronic Anti-theft Lock Standard | GA374-2001 |
| Mechanical Anti-theft Lock Standard | GA/T73-94 |
| Fireproof Door Standard | GB12955-2008 |

International Standards:

| | |
|---|---|
| Building hardware-Locks and Latches-Mechanically operated Locks latches and locking plates-Requirements and test methods | BS EN12209:2003 |
| Positive Pressure Fire Tests of Door Assemblies | UL10C |
| Access Control System Units | UL294 |
| High-Security Electronics Locks | UL2058 |

## Ⅳ. Lock Configuration Standards

Refer to Installation Guide

## Ⅴ. Handle Orientation Change

Refer to Installation Guide

## Ⅵ. Assembly of Lock Connectors

Refer to Installation Guide

## Ⅶ. Warranty Card

Dear user:

Thanks very much for your trust and support to ADEL Company. In order to better achieve the service commitment of ADEL Company, please fill in the warranty card after buying the product of ADEL

Company so that we can create your personal file and make you enjoy more convenient, thoughtful, and attentive service to relieve your worries. Sincerely hope our product and service can help you create a better life!

Mail to: AISO Service Center, Shenzhen Ideal Microelectronic Co., Ltd
Address: Bldg. 4, Xili Nangang Second Industrial Park, Songbai Road, Nanshan District, Shenzhen, China
Tel: +86-755 2765 7755
Fax: +86-755 2765 2282
Email: service@adellock.com

Welcome to visit the website **http://www.adellock.com** to know more information.

**CÔNG TY CỔ PHẦN CÔNG NGHỆ VKEN**

VP: Tầng 5 - Số 184 Nguyễn Tuân - Thanh Xuân- Hà nội
Tel: 0904 954 981 Email: info@vken.vn

Website: www.Vken.com.vn

# CATALOGUES

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Giao hàng trong vòng 02 ngày kể từ ngày ký kết hợp đồng hoặc xác nhận đặt hàng.

**Bảo hành theo tiêu chuẩn của nhà sản xuất.**

**Hình thức Thanh toán:** Ngay sau khi hai bên giao nhận hàng hoá và chứng từ kèm theo.

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**Mọi chi tiết về báo giá này Quý khách vui lòng liên hệ Phòng Kinh Doanh :**

**Hotline: 0904 954 981**